Dodging and Burning An Introduction to Local Brightness Control in Photoshop

Who is dodging

climate debate?

https://www.flickr.com/photos/takver/15051971594. (cropped from original)

Dodging and Burning

- What is Dodging and Burning, and the origins
- Dodging and Burning in Adobe Camera Raw
- Basic Dodging and Burning in Photoshop
- "Overlay" nondestructive Dodge and Burn
- "Apply Image" masking nondestructive Dodge and Burn

Dodging and Burning

- Dodging \rightarrow Lightening
- Burning \rightarrow Darkening



https://commons.wikimedia.org/wiki/File:Darkroom_enlarger_en.svg





- Could be very confusing for the newcomer; more light = darker image
 - This is because the film and the print papers were mostly *negatives*
- Thankfully less confusing with modern digital cameras
 - Burning = darkening (think of paper getting darker as it burns)
 - Dodging = the opposite of burning, so it's lightening
- Dodge and Burn change the paper exposure

Dodging and Burning

What do we mean by exposure?

- Dodging → Lightening (more exposure)
 Burning → Darkening (less exposure)
- In Photoshop: •
 - Exposure uniformly increases the lightness of the image across all values
 - Tends to blow out the highlights
 - **Brightness** preserves highlights, pulls up the mid tones •
 - Acts like a simple curves stretch



Original



Cache Level: 4

Pixels: 699392



Brightness				
Source:	Entire Image	e		
Mean:	126.11	Level:	116	
Std Dev:	57.92	Count:	13175	
Median:	124	Percentile:	45.73	
Pixels:	699392	Cache Level:	4	

All adjusted to have the same mean pixel value









Dodging and Burning Within Adobe RAW

- Exposure and Brightness behave a little differently in ACR (there is no Brightness slider)
- Best approach is to balance the Exposure and Whites/Blacks sliders
 - Using just the Black/White sliders for dodging and burning tends to wash things out a little

Camera Raw 14.5

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Dodging and Burning Within Adobe RAW





Screenshot

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+0.25 Exposure +5 Contrast +10 Whites +10 Clarity





-0.25 Exposure+5 Contrast-10 Blacks+10 Clarity

Dodging and Burning Within Adobe RAW

- Why add Contrast and Clarity adjustments to dodge and burn?
 - A *little* contrast helps to counter-act the natural tendency for dodging and burning to wash things out and reduce color saturation. A small amount of contrast helps to recover this loss.
 - A *little* clarity helps to counter-act the apparent loss of detail that can occur during dodge/burn wash-out.
 - The new Texture slider can also be used in place of clarity, if desired. Helpful if noise is a problem in your image.

Dodging and Burning in Photoshop

- You can use either Brightness or Exposure for dodging and burning
- Recommend Brightness (Curves) as it preserves the highlights
- Photoshop appears to adopt a Curves approach to Dodge and Burn as standard
- You *can* Dodge and Burn an entire image, but usually these are applied as *local* adjustments to portions of an image
- Recommend layers for dodging and burning
- Most easily done within Photoshop, but can also be done within Adobe RAW

- Dhotoshan 2022



"Overlay" Method for Non-Destructive Dodge and Burn in Photoshop

- Uses a single adjustment layer to do Dodge and Burn
- Uniform gray layer with Overlay blend mode
- How it works:
 - Overlay blend mode is normally used to boost image contrast
 - Contrast is increased by brightening the highlights and darkening the shadows
 - But here we will uses a 50% gray layer to control which areas are lightened and darkened

"Overlay" Method for Non-Destructive Dodge and Burn in Photoshop

 Create a new adjustment layer ("+" symbol) but hold down "Alt" (Windows) or "Option" (Mac)



2. Brush White to Dodge, Black to Burn (set Brush opacity to 5-10%)

- A pretty fool-proof method for dodging and burning in Photoshop
- Uses the lights and darks in your image to determine where to dodge and burn
 - Creates masks **defined** by the lights and darks in your image
- Blends the mask seamlessly and realistically using "Apply Image"

- 1. Add a Curves adjustment layer
- 2. Pull the Curve "up and left" which brightens the whole image
- 3. Make the layer mask "Black" which effectively hides the Curves layer
 - "Control I" (Windows) or "Command I" (Mac) to invert the layer mask, effectively making it black.
- 4. Use the brush tool to paint White over areas where you want to dodge
- 5. Blend in the layer to make it look realistic
 - 🖙 Image 🖙 Apply Image 🖙 default parameters 🖙



- 6. "Alt + click" (Windows) or "Option + click" (Mac) on the layer mask to see how the image itself has defined the layer mask
- 7. For "Burn", add a second Curves adjustment layer and pull the curve "down and right" to darken the image
- 8. Repeat the same steps we used for Dodge to produce a nicely blended Burn layer
 - Invert the layer mask
 - Paint white to define the Burn areas
 - Blend using Apply Image BUT click "INVERT"
 - Makes the mask visible in the darker areas



- The same method can also be applied using any masking technique
 - Lasso, subject select, magic wand, etc. in Photoshop
 - Gold standard masking is Tony Kuyper TK7 or TK8 luminescence masking
 - Super powerful and a full talk in its own right
 - Allows mask creation based on luminance, color, saturation, zones, levels, color channels, hue, vibrance